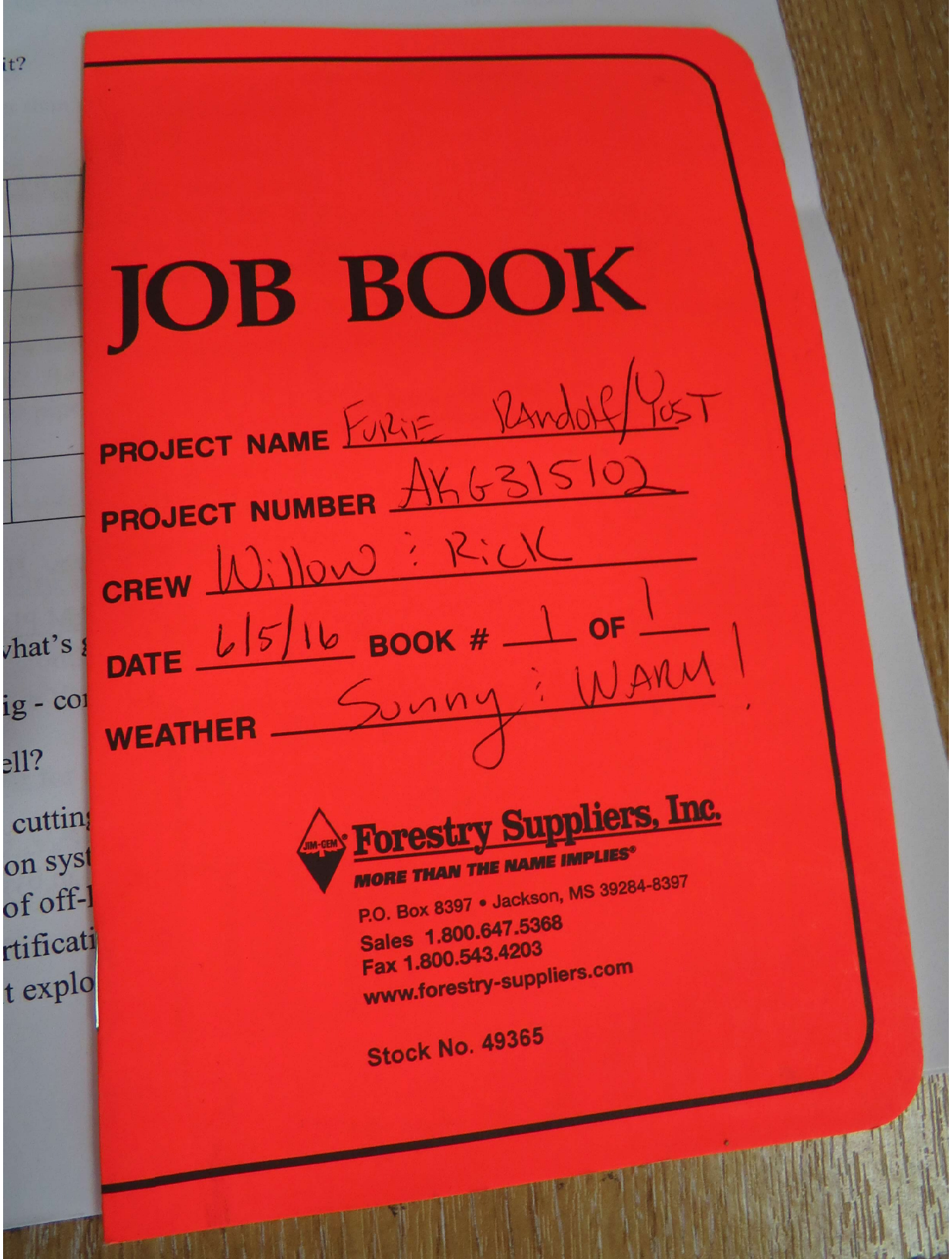

DRILLING
SOLUTIONS
RANDOLPH YOST



JOB BOOK

PROJECT NAME Furie Randolf/Yost

PROJECT NUMBER AK6315102

CREW Willow : Rick

DATE 6/5/16 BOOK # 1 OF 1

WEATHER Sunny : WARM!

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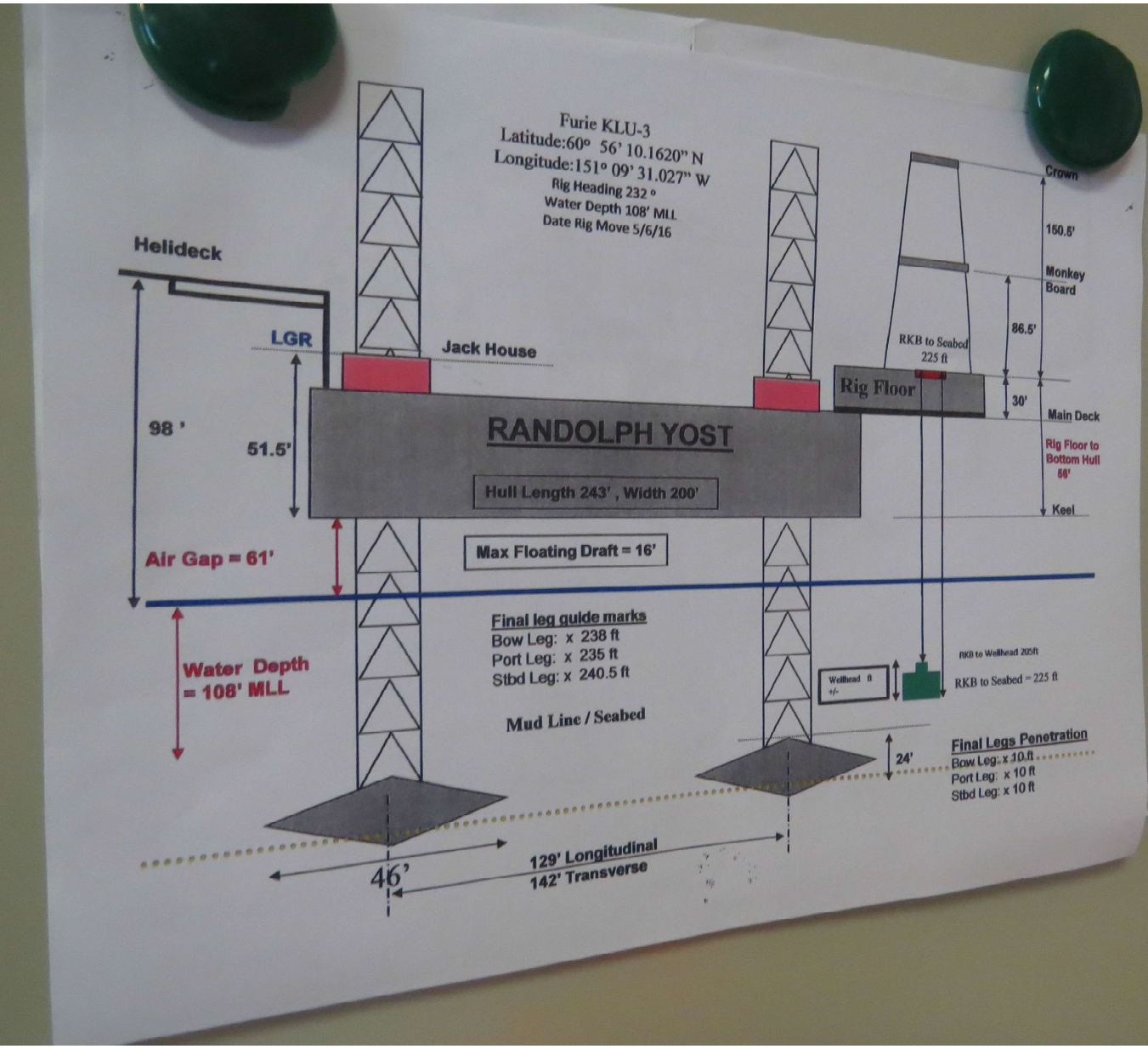
Furie KLU-3
Latitude:60° 56' 10.1620" N
Longitude:151° 09' 31.027" W
Rig Heading 232 °
Water Depth 108' MLL
Date Rig Move 5/6/16
Helideck
LGR
Jack House
98 '
51.5'
RANDOLPH YOST
Hull Length 243' , Width 200'
Max Floating Draft = 16'
Air Gap = 61'
Water Depth
= 108' MLL
Final leg guide marks
Bow Leg: x 238 ft
Port Leg: x 235 ft
Stbd Leg: x 240.5 ft
Mud Line / Seabed
Crown
150.5'
Monkey
Board
86.5'
RKB to Seabed
225 ft
Rig Floor
30'
Main Deck
Rig Floor to
Bottom Hull
58'
Keel
RKB to Wellhead 205ft
RKB to Seabed = 225 ft
Wellhead ft
+/-
24'
Final Legs Penetration
Bow Leg: x 10 ft
Port Leg: x 10 ft
Stbd Leg: x 10 ft
46'
129' Longitudinal
142' Transverse


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DPD Total Chlorine Reagent
for 5 mL sample
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Department of Environmental Conservation

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.269.3487
www.dec.alaska.gov

May 3, 2016

DEC File #: 2339.48.056
APDES Permit #: AKG315102

Mr. Bruce Webb
Furie Operating Alaska, LLC
1029 West 3rd Ave, Suite 500
Anchorage, Alaska 99501

Re: Revised Coverage under the Alaska Pollutant Discharge Elimination System (APDES) General Permit AKG315100 – Mobile Oil and Gas Exploration in State Waters in Cook Inlet

Dear Mr. Bruce Webb:

Alaska Department of Environmental Conservation (DEC or Department) received a Notice of Intent (NOI), Drilling Fluids Plan (DFP) and Environmental Monitoring Program (EMP) Study Plan received from Furie Operating Alaska, LLC (Furie) on March 28, 2016. DEC issued authorization **AKG315102 – Furie Operating Alaska, LLC, Kitchen Lights Unit Exploration** on April 4, 2016. This authorization did not include the discharge of domestic wastewater since the domestic wastewater system did not have Department approval on an Engineering Plan Submittal and a waiver to secondary treatment standards. DEC provided approval to operate the Randolph Yost domestic wastewater system and a waiver to secondary treatment standards on April 22, 2016 (tracking #26574). As of the date of this letter, domestic wastewater discharges are authorized as originally requested in the NOI. As noted in the previous authorization letter, the Drilling Fluid Plan and Environmental Monitoring Program Study Plan are approved for the two wells noted in the NOI and Furie is authorized for the following discharges and the associated mixing zones per the general permit:

Discharge	Description
001	Drilling Fluids and Drill Cuttings
002	Deck Drainage
003	Domestic Wastewater
009	Non-Contact Cooling Water
010	Uncontaminated Ballast Water
012	Excess Cement Slurry
013	Mud, Cuttings, and Cement at the Seafloor
019	Test Fluids

Note that adding wells to this authorization may require submittal of a revised NOI, DFP, and EMP Study Plan. You should coordinate with DEC on any modification prior to submitting a written request for modified coverage.

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Instruction Manual

Updated 6/1/2009
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Components

#153-12	Glass Graduated Cylinder; 100 mL × 1 mL
#153-40-5	Disposable Pipette; 25 mL; Qty: 24
#153-51-5	1,000 mL Beaker; Glass
#153-51-6	1,000 mL Beaker; Polyethylene
#153-68	Disposable Weight Boat; Medium; 78 × 78 mm; Qty: 24
#154-50	4" Spatula
#295-50-1	Dishpan; 18 qt
#295-50-2	Trashbag; 30 gal
#297-28	5-Gallon Pail with Lid

Optional:

#153-53	Magnetic Stirrer with Stir Bars; 6" Diameter × 3" Height; 200 - 2,500 RPM; 120 Volt
#166-06	Triple Beam Balance

Sample Collection

Sampling containers must be thoroughly washed with detergent, rinsed a minimum of 3 times with fresh water, and allowed to air dry before samples are collected.

For each type of sample, fill 1 sample container half way. Samples must be tested within 1 hour of collection.

Liquid Samples:

- Drilling Fluid – Collect once per day at the shale shaker after the cuttings have been removed.
- Deck Drainage – Collect from the holding facility prior to discharge.
- Well Treatment Fluids – Collect from the holding facility prior to discharge.

Solid Samples:

- Drill Cuttings – Collect from the shale shaker screens prior to the addition of any washdown water. Collect one sample each day that drill cutting discharge occurs.
- Produced Sand – Collect from each type of solids control equipment prior to the addition of any washdown water. Collect one sample each day that produced sand discharge occurs.

Test Procedure

Test Container:

Line the test container with a disposable liner and then fill the test container to within ½" of the top with ambient receiving water. The temperature of the test water should be maintained as close as possible to the temperature in the receiving water, not room temperature. Dispose of the liner after each test.

Sample Preparation:

Liquid Samples – Fill and then discharge a disposable 25 mL pipette with the well-mixed sample. Now, refill the pipette and transfer 15 mL of sample to the test container. The sample must be discharged 1 cm below the surface of the ambient receiving water in the test container. Use the pipette to stir the ambient receiving water and sample mixture. Dispose of the pipet after each test.

Solid Samples – Tear a plastic disposable weighing boat. Use the stainless steel spatula to weigh out 15 grams of the well-mixed sample. Now immerse the weighing boat in the ambient receiving water in the test container and scrape the weighing boat with the spatula to transfer any residual material to the test container. Use the spatula to stir the ambient receiving water and sample mixture. Dispose of the weighing boat after each test.

Observations:

Observations must be made no later than 1 hour after the test material (sample) is transferred to the test container. The surface of the test container should be viewed from at least 3 sides at viewing angles of approximately 60° and 30° from the horizontal. Observations should be made in a well-lighted area under fluorescent lighting if possible. The entire surface of the test container must be illuminated. The test container must not be disturbed prior to or during observation.

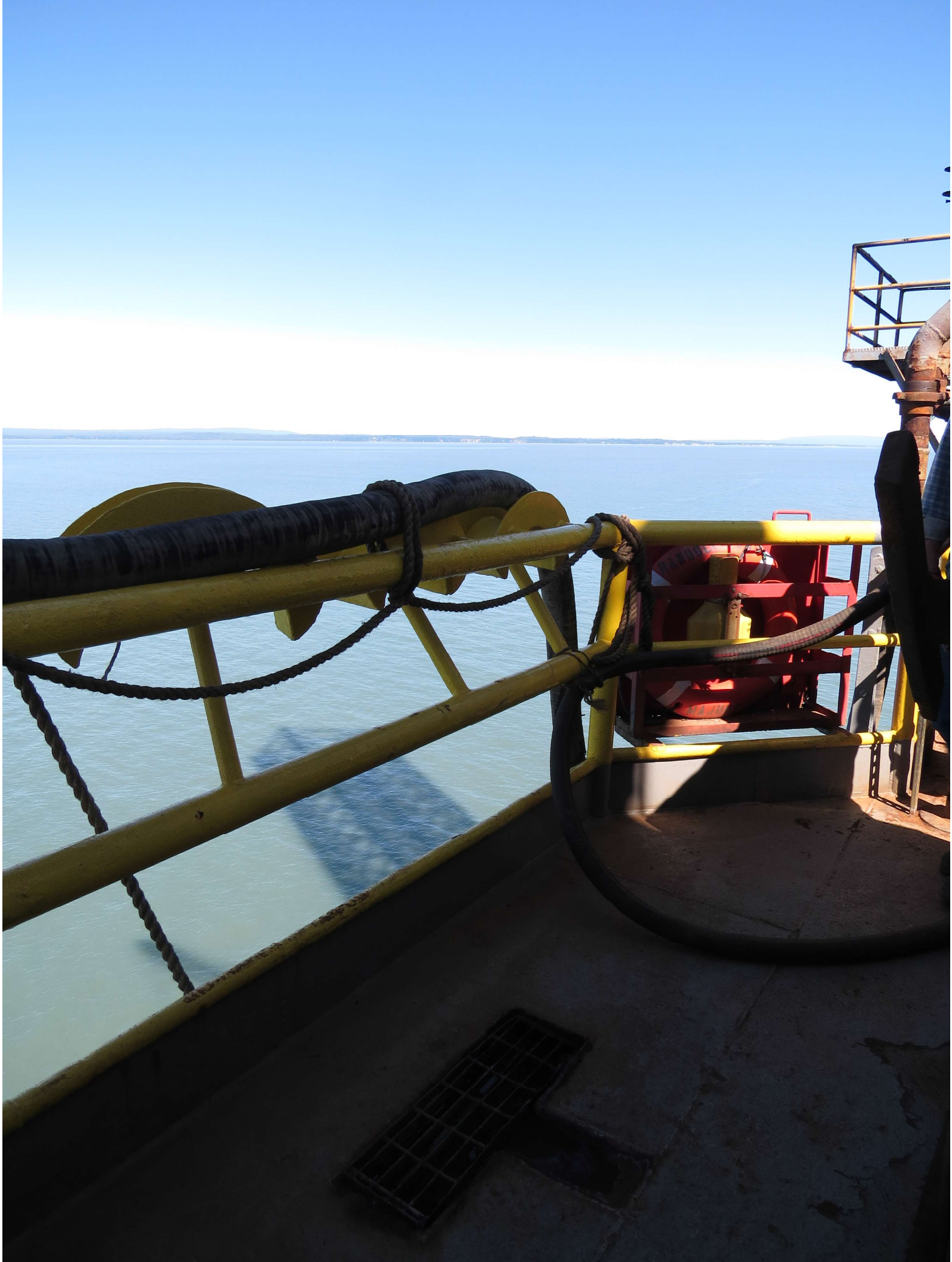
Demonstration of Free Oil:

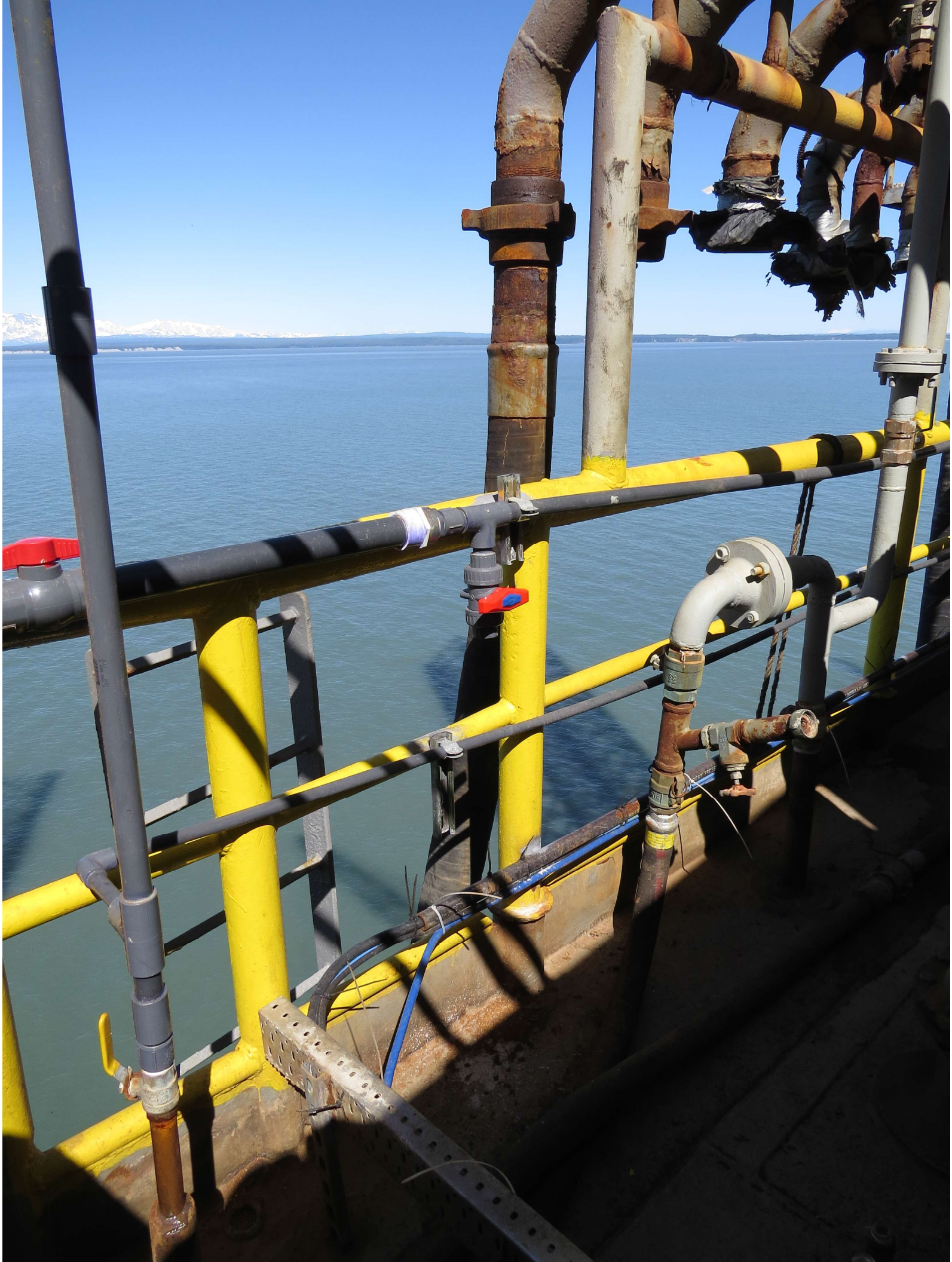
Detection of a silvery or metallic sheen, gloss, color, iridescence, increased reflectivity, or an oil slick on the ambient receiving water surface in the test container shows the presence of free oil.

If an oil sheen or slick occurs on less than half of the test container surface area immediately after the sample is added to the ambient receiving water, continue observations for one hour. If the sheen or slick increases in size and covers more than half of the test container surface area within the one-hour observation period, the discharge of the tested material shall cease. Also, analyze a sample of the tested material for total aromatic hydrocarbon content and the presence of diesel oil as required by the permit.

If the sheen or slick does not increase in size to cover more than half of the test container surface area within the one-hour observation period, discharge may continue and additional testing of the material is not required.

If an oil sheen or slick occurs on more than half of the test container surface area immediately or within 1 hour after the sample is added to the ambient receiving water, the discharge of the tested material shall cease. Also, analyze a sample of the tested material for total aromatic hydrocarbon content and the presence of diesel oil as required by the permit. The material causing the sheen or slick may be retested. If subsequent tests do not result in a sheen or slick covering greater than one-half of the surface area of the test container, discharge may be reinitiated.






PROCEDURE


OMNIPURE


DE NORA
CAUTION
THIS EQUIPMENT STARTS AND STOPS AUTOMATICALLY
WARNING


DE NORA
CAUTION
THIS EQUIPMENT STARTS AND STOPS AUTOMATICALLY
WARNING


POWER TEAM
WARNING


OMNIPURE
SPX POWER TEAM


CAUTION
THIS EQUIPMENT STARTS AND STOPS AUTOMATICALLY
OMNIPURE


CAUTION


CRANE SIGNALS
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49 CFR 178.340


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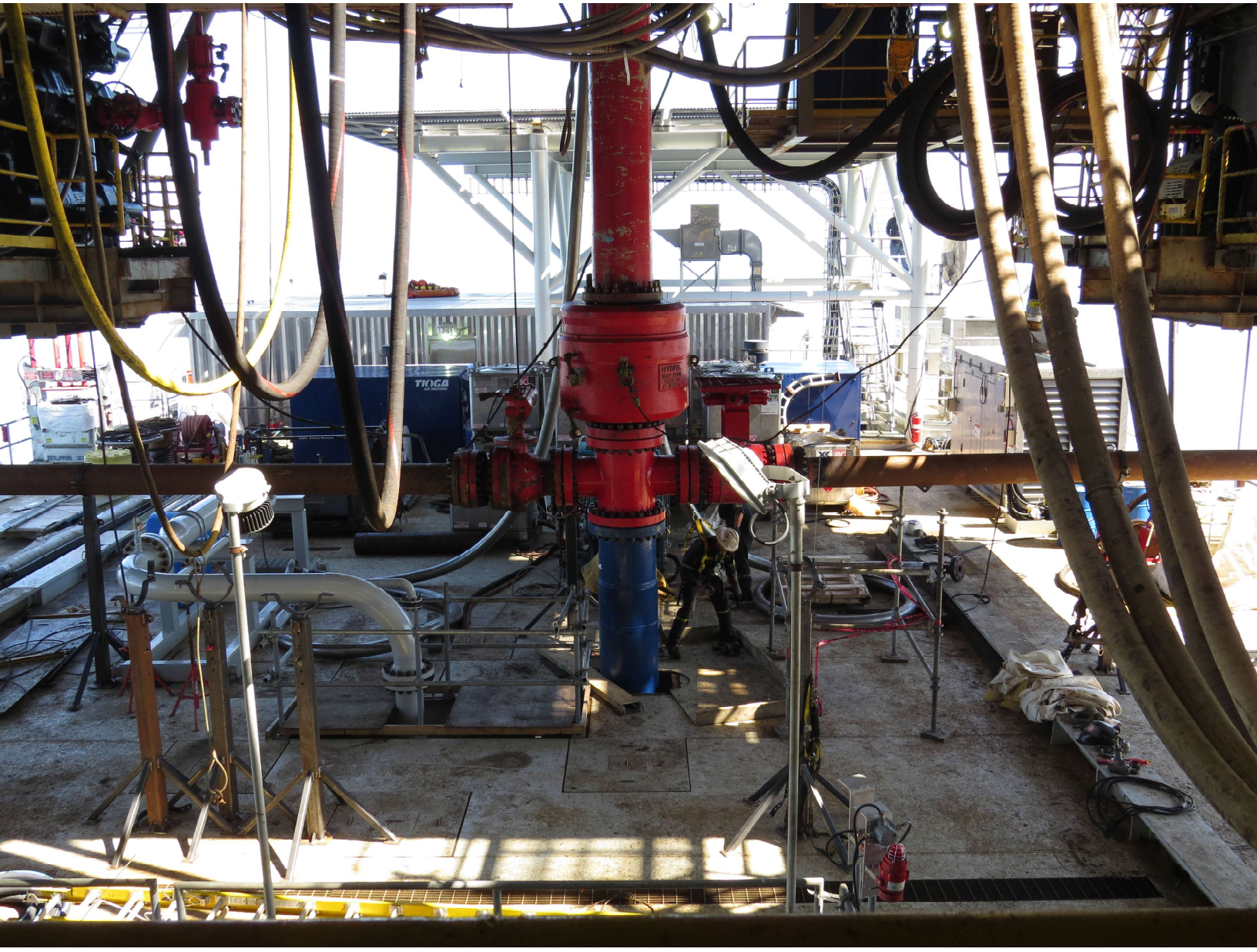
SPEC 57


sparrows
CAUTION
HUTCHISON HAYES
NAPA


sparrows
ROTATION
KEEP DRY
AW 32


35 FT
40 FT


TIOGA

Julius R Platform & Randolph Yost Jackup Rig

June 15, 2016 Photo Log

(Photographs were taken by Willow Weimer on June 15, 2016)

IMG_0893JPG: Rig leg
IMG_0894JPG: Rig leg
IMG_0895JPG: Rig leg
IMG_0896JPG: DEC job book cover
IMG_0897JPG: Rig anchoring diagram
IMG_0898JPG: Hach chlorine test reagent package
IMG_0899JPG: Hach chlorine test equipment
IMG_0900JPG: DEC's May 1, 2016 Rig authorization letter
IMG_0901JPG: Static sheen test kit instruction manual
IMG_0902JPG: Static sheen test kit instruction manual
IMG_0903JPG: Static sheen test kit instruction manual
IMG_0904JPG: Static sheen test kit instruction manual
IMG_0905JPG: Static sheen test kit instruction manual
IMG_0906JPG: Non-contact cooling water observation point
IMG_0907JPG: Non-contact cooling water observation point background
IMG_0908JPG: Sample point for Outfall 001B pre-dechlorination
IMG_0909JPG: Sample point for Outfall 001B pre-dechlorination
IMG_0910JPG: Rig's Omnipure unit on deck
IMG_0911JPG: Rig's Omnipure unit on deck
IMG_0912JPG: Rig's Omnipure unit on deck (bookcell)
IMG_0913JPG: Rig's Omnipure unit on deck (bookcell)
IMG_0914JPG: Rig's Omnipure unit on deck
IMG_0915JPG: Rig's Omnipure unit on deck
IMG_0916JPG: Omnipure dechlorination unit
IMG_0917JPG: Omnipure dechlorination unit
IMG_0918JPG: Drill cutting collection boxes
IMG_0919JPG: Drill cutting collection boxes
IMG_0920JPG: Solids centrifuge
IMG_0921JPG: Rig leg
IMG_0922JPG: Rig leg
IMG_0923JPG: Omnipure post-dechlorination sampling point
IMG_0924JPG: Omnipure post-dechlorination sampling point
IMG_0925JPG: Rig's shale shaker – auger system
IMG_0926JPG: Rig's shale shaker – auger system
IMG_0927JPG: Rig's drill cuttings auger system
IMG_0928JPG: Rig's drill cuttings auger system
IMG_0929JPG: Vacuum-equipped cuttings collection box
IMG_0930JPG: Drill cuttings and muds centrifuge
IMG_0931JPG: Vacuum system control room

IMG_0932JPG: Rig skim tank under drill floor/cantilever deck
IMG_0933JPG: Top of Platform, under Rig cantilever deck – conductor pipe/starter head/diverter pipes
IMG_0934JPG: Top of Platform, under Rig cantilever deck – conductor pipe/starter head/diverter pipes
IMG_0935JPG: [photo does not exist]
IMG_0936JPG: Platform's redFox unit
IMG_0937JPG: Platform's redFox unit inlet chlorine sample valve
IMG_0938JPG: Platform's redFox unit
IMG_0939JPG: Platform's redFox unit discharge valve sample point
IMG_0940JPG: CPI separator
IMG_0941JPG: Platform's visual observation point
IMG_0942JPG: Platform's visual observation point
IMG_0943JPG: Stacked drilling pipe
IMG_0944JPG: Stacked drilling pipe